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ABSTRACT

This booklet is divided into two sections. Section 1, "A Few Words on Language, Courtesies, and Stereotypes," gives suggestions on speaking to and about people with disabilities. Principles of language use include: (1) put people first, not their disability; (2) avoid identifying a group of people as a disability category; (3) avoid emotional or degrading terms; and (4) distinguish between the terms "disabilities" and "handicaps" and between the terms "nondisabled" and "normal." Among 12 suggested courtesies are talking directly to the person with a disability, even if an interpreter or attendant is present and asking before helping an individual with a disability. Ways to overcome stereotypes, both positive and negative, are also suggested. Section 2, "Human Resources," lists 80 individuals who have agreed to act as consultants on questions of science, technology and disability. The list is cross-referenced by expertise, academic field, and disability to aid efforts to identify resource individuals to fit particular needs. Information provided for each consultant includes name, address, telephone number, academic field, degree(s), current position(s), field(s) of expertise, disability, and age of onset of disability. (DB)

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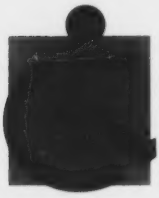

Access In Word and Deed

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INTRODUCTION

Barrier-Free in Brief: Access in Word and Deed is part of the AAAS "Barrier-Free" series. It is a companion to *Barrier-Free: Workshops and Conferences for Scientists and Engineers, Barrier-Free: Laboratories and Classrooms in Science and Engineering,* and *Barrier-Free: Access to Science Literacy.* We hope you will find all four booklets in the series useful.

This booklet has two sections. Section I, "**A FEW WORDS ON LANGUAGE, COURTESIES, AND STEREOTYPES,**" gives suggestions on speaking to and about people with disabilities. Section II, "**HUMAN RESOURCES,**" lists 80 individuals who have agreed to act as consultants on questions of science, technology and disability. The list is cross-referenced by expertise, academic field and disability to aid efforts to identify resource individuals to fit particular needs.

I. A FEW WORDS ON LANGUAGE, COURTESIES AND STEREOTYPES

Language

Sticks and stones may break my bones, but words can really hurt me.

The language we use says a lot about our thoughts and attitudes. The wrong words can hurt and exclude people. The right words show care and respect. This includes the way we talk to and about people with disabilities.

Over the years people with disabilities have agreed on a language etiquette that is accurate and considerate. This does not mean that this language is fixed; usage changes. What it does mean is that this is the language people with disabilities prefer now (1991). We don't refer to our friends by names other than those of their own choosing. By using the following guidelines, we are simply giving people with disabilities the same kind of basic courtesy by referring to them in terms of their choice.

Put People First, Not Their Disability

Say "person with a disability," "student who is deaf," or "chemist who had polio." This puts the focus on the individual rather than on a particular functional limitation.

Avoid Identifying a Group of People as a Disability Category

Say "scientists who are blind" or "people with disabilities" instead of "the blind" or "the disabled."

Describe Mobility Aids or Other Technology as Useful Devices to the Individual Rather Than Extensions of Themselves

Say "uses a wheelchair," or "walks with crutches" rather than "wheelchair-bound" or "confined to crutches." No one is actually bound to a wheelchair — they just use it to get around. After all, we wouldn't describe someone who uses planes to travel long distances as "plane-bound."

Avoid Emotional or Degrading Terms

Never use "afflicted with," "victim of," "unfortunate," "pitiful," "cripple," "spastic," "retarded," or "deformed."

Remember to Distinguish Between...

...**"disabilities" and "handicaps"**: A "disability" applies to a person. A "handicap" describes a barrier in the environment. A disability is a functional limitation: paraplegia, blindness, and cerebral palsy are all disabilities. A disability becomes a handicap only when an external barrier prevents a person from doing something. For example, a person uses a wheelchair because of a disability; there is a handicap only when that persons faces stairs with no adjoining elevators, and cannot go up or down a floor.

...**"non-disabled" and "normal"**: Most people, including people with disabilities, think of themselves as normal. When referring to the fact that someone is not disabled, use "non-disabled."

In Short

Instead Of	Say
the handicapped	***people with disabilities***
normal scientists	***non-disabled scientists***
a wheelchair-bound chemist	***a chemist who uses a wheelchair***
a victim of cerebral palsy	***an engineer who has cerebral palsy***

Courtesies

People with disabilities are entitled to the same courtesies you extend to anyone. Rather than make assumptions about their lives and abilities, find out about them. Ask questions about the kinds of things you would ask anyone you would like to know. Share information about your own life as well. But, be courteous: if you don't generally ask people about their incomes or personal lives, don't ask people with disabilities about theirs. Don't call a person by his or her first name unless you are doing the same with everyone present.

Consider the following suggestions:

- Always talk to a person with a disability directly, even if an interpreter or attendant is present.
- Ask before you help. If someone accepts your offer, be sure to listen for any directions he or she may give you.
- Relax. Don't be embarrassed to use conventional expressions that may seem to relate to a person's disability, such as "I see what you mean" or "have to run along."
- Don't make assumptions. Whether it be performing an experiment or pouring coffee, if you are not sure a person can or cannot do a task, simply ask.

- Since you don't usually lean on people, don't lean on wheelchairs. It can be uncomfortable. Don't pat a wheelchair user on the shoulder. What is intended as a friendly gesture often appears condescending.
- When introduced to a person with a disability in a professional or social setting, shake hands.
- When talking with a person in a wheelchair for more than a few minutes, place yourself at the wheelchair user's eye level. This will spare both of you a stiff neck.
- When talking to a person with a hearing impairment, look directly at the person and speak clearly. Place yourself facing a light source, and keep hands or food away from your mouth when speaking. Not all persons with hearing impairment can lipread. Shouting won't help, but written notes can.
- When offering to assist someone with a vision impairment, allow the person to take your arm. This will help you to guide, rather than propel or lead this person.
- When greeting someone with a vision impairment, always identify yourself and others who are with you. Speak in a normal tone of voice, indicate when you move from one place to another, and let it be known when you are excusing yourself.
- In conversation with a person whose speech is difficult to understand, give your whole, unhurried attention. Be patient rather than speak for the person. When necessary, ask short questions that require short answers. Don't pretend to understand something you have not understood. Repeat what you do understand.
- To gain the attention of someone who is deaf or hearing impaired, gently wave your hand in his or her line of vision or lightly tap him or her on the shoulder.

NOTE: THE LANGUAGE AND COURTESIES SECTION OF THIS BOOKLET ARE BASED ON THE FOLLOWING PAMPHLETS:

National Easter Seal Society: "Tips for Disability Awareness"

The Research and Training Center on Independent Living: "Guidelines for Reporting and Writing About People with Disabilities"

STEREOTYPES

A person with a disability is an individual with the same range of hopes, fears, assets and faults as a non-disabled person. A person with a disability should be treated no differently.

Yet sometimes, despite our best intentions, this simple fact is forgotten. Old myths and stereotypes come back. Here are a few examples:

Stereotype — "you're invisible": We avoid or ignore a student or colleague whose disability makes us feel uncomfortable.

Stereotype — "you're helpless": We are unusually solicitous and deferential, and sometimes volunteer help without asking if it is needed.

Stereotype — "you're sick": We assume a person's disability is a disease. We assume the disability is progressive, debilitating, and the cause of other physical or intellectual deficits. People who use wheelchairs, for example, are often spoken to in a loud voice, as if they could not hear.

Stereotype — "you're incredible": We assume people with disabilities, especially those who have made it to college or graduate school, are courageous and exceptional. As flattering as it may be, this belief too is a myth. Saying "you're incredible" prevents both you and the student or colleague from being realistic. Scientists and engineers with disabilities are no more or less incredible than other people who have succeeded in these demanding fields. They simply want to be treated like everyone else.

Stereotype — "you're trying hard enough": We expect less of people with disabilities. We praise a student with a disability who is merely passing, for example, instead of advising her that she could be doing much better with a little more work.

How to Overcome Stereotypes:

- Treat a person with a disability as you would anyone else.
- Always talk to a person directly, even if he or she has an attendant.
- Ask before you help.
- Don't assume anything about a disability.
- Don't lower your standards or expectations.
- Don't compliment a person with a disability for doing something you would expect a non-disabled person to do.
- Understand how accessibility and technology are important to a person's functioning.

How to use this section

The 80 people listed in this section have agreed to serve as informal consultants on issues of science and disability. They can help you answer your questions about disabilities, accommodations, and assistive technology.

Individuals are listed alphabetically by last name in list 1. Each entry includes an address, telephone number(s), discipline and academic degree(s), most recent position, and expertise and consulting interest. In addition, each person is cross-referenced by area of expertise (list 2) and academic field (list 3). Individuals whose names are marked with an asterisk have a disability which is listed along with age of onset; they are cross-referenced by disability (list 4). The individuals with disabilities are members of the AAAS Resource Group of Scientists and Engineers with Disabilities. All those listed, whether part of the Resource Group or not, are frequent advisors to the AAAS Project on Science, Technology and Disability and its activities.

List 1: List of Consultants

This is a list of consultants providing the following information:

Name
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Current Position(s)
Field(s) of Expertise
Disability; Age of Onset of Disability (Not age at present)

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Limited Mobility Access; Education—pre-college and post-secondary; Computer Access
Post-polio Age 2

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Director, Learning Disability Program, and Clinical Professor, Department of Prosthodontics and Occlusion, New York University Learning Disabilities
Legal Ramifications of Dyslexia
Neurological (cerebral) Dyslexia Age not available/applicable

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Blind/Visually Impaired Birth

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Neurological (Cerebral) Birth

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Neurological (Spinal Cord) Age 19

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Blind/Visually Impaired Age 16

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Post-polio Age 16

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Deaf/Hearing Impaired Birth
Blind/Visually Impaired Age 40

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Assistive Technology; Communication (Speech); Computer Access (Individual Evaluations); Funding Sources
Spastic Dysphonia Age 19

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(304) 293-5201
Biology
PhD, Genetics, Statistics; MS, Genetics, Zoology; BS, Agronomy
Professor of Biology
Education; Lab Adaption
Post-polio Age 18
Diabetes Age 42

KIRCHNER, Corinne
American Foundation for the Blind
15 West 16th Street
New York, NY 10011
(212) 620-2140
Sociology
PhD, Sociology; BA, Sociology
Director, Social Research
Demographics and Disability; Access for Blind/VI

****LANG, Harry G.***
NTID/Rochester Institute of Technology
Box 9887
One Lomb Memorial Drive
Rochester, NY 14623
(716) 475-6777
Physics and Engineering
EdD, Science Ed.; MS, Electrical Eng.; BS, Physics
Research Associate/ Dept. Ed. Research and Development; Professor of Physics/Mathematics
Assistive Technology for Deaf/HI; Communication Skills with Deaf/HI; Lab Adaptation; Historical Research on Deaf Scientists
Deaf/Hearing Impaired Age 15

****LEIFER, Larry***
Dept. of Mechanical Eng./Design Div.
Terman Engineering Center, Room 50
Stanford University
Stanford, CA 94305
(415) 723-4288
Rehabilitation Engineering
PhD, Biomedical Eng.; MS, Product Design; BS, Mechanical Eng.
Professor of Mechanical Engineering; CTO, Tolfa Corp.; Director, Stanford Center for Design Research
Computer Access; Hi-Tech Assistive Devices; Powered Mobility
Deaf/Hearing Impaired Age 33

LEVITT, Harry
Center for Research in Speech and Hearing Sciences
CUNY-Graduate School
33 W. 42nd Street
New York, NY 10036
(212) 642-2359
Audiology and Communication Sciences
PhD, Electrical Engineering
Distinguished Professor
Assistive Technology for Deaf/HI; Communication Skills with Deaf/HI

****LIEBER, Ellen Ruth***
Access/Abilities
P.O. Box 458
Mill Valley, CA 94942
(415) 388-3250
Education and Chemistry
MS, Biochemistry; BA, Chemistry; Lifetime Jr. College Credential—Biochemistry
Access and Disabilities Resources Consultant
Awareness and Sensitivity Training; Museum Access; Hands-on Science Programs; Architectural Access
Orthopedic Age 41

LIFCHEZ, Raymond
Department of Architecture
University of California, Berkeley
232 Wurster Hall
Berkeley, CA 94720
(415) 642-4942 (415) 643-5607 (FAX)
Architecture
MS, Architecture
Professor of Architecture
Limited Mobility Access; Awareness and Sensitivity Training; Independent Living Issues

**MALZAHN, Don*
Department of Industrial Engineering
Wichita State University
Wichita, KS 67208
(316) 689-3425
Industrial Engineering
PhD, Industrial Eng.& Management; MS, Industrial Eng. & Management; BS, Mechanical Engineering
Professor of Industrial Engineering
Post-secondary Education; Computer Access; Workplace Access/ Accommodation
Neuromuscular (Post-polio) Age 4

**MARSTERS, James C.*
2090 North Villa Heights Road
Pasadena, CA 91107
(818) 797-2216
Orthodontics and Dentistry
DDS, Dentistry; MS, Orthodontics; BS, Premedicine
Orthodontist (Retired); Consultant
Education of Deaf/HI; Orthodontics; Telecommunications for Deaf/HI
Deaf/Hearing Impaired Birth

**McCRIMON, Audrey*
Department of Rehabilitation Services
State of Illinois, Suite 8-100
100 W. Randolph
Chicago, IL 60601
(312) 814-2921 (312) 814-5000 (TDD)
Counseling and Education
MS, Counseling and Guidance (Deafness); BS, Education (Communication Disorders)
Director, Department of Rehabilitation Services
Accessible Event Planning; Accommodation/Access in Daily Living; Communication; Legal Issues and Disability
Hearing Impaired/Visually Impaired Age 6 months

**MENCHEL, Robert S.*
NTID/Rochester Institute of Technology
Dept. of Physics and Technical Math
One Lomb Memorial Drive
P.O. Box 9887
Rochester, NY 14623
(716) 475-6469 W (TDD) (716) 381-2809 H (V/TDD)
Business and Business Consulting
MBA, Business; BS, Physics; AAS, Mech. Technology
Assistant Professor; Adjunct Faculty, RIT Business School
Assistive Technology for Deaf/HI; Coping Strategies; Funding Sources; Science
Education for the Deaf/HI; Workplace Accommodation
Deaf/Hearing Impaired Age 7

**MILLER, Millage Clinton, III*
Dept. of Biostatistics, Epidemiology and Systems Science
Medical University of South Carolina
171 Ashley Ave.
Charleston, SC 29425
(803) 792-2261
Biometry and Biostatistics
PhD, Biostatistics; MA, Mathematics; BS, Chemistry
Chair, Department of Biostatistics, Epidemiology, and Systems Science Limited Mobility Access Research; Development of Wetlabs, Clinical Trials, and Community Studies
Neurological (Spinal Cord) Age 21

**MITCHELL, James E.*
Kansas Geological Survey
1930 Constant Ave., Campus West
The University of Kansas
Lawrence, KS 66047
(913) 864-3965
Hydrology and Water Resources
PhD, WRP&E; MS, Biology; BS, Biological Science
Hydrologic Manager, Kansas Geological Survey; Independent Engineering Consultant
Assistive Technology for Blind/VI; Civil Rights; Computer Access for Blind/VI; Funding Sources
Blind Age 10

MUELLER, James L.
J. L. Mueller, Inc.
2502 Taylor Ave.
Alexandria, VA 22302
(703) 549-3466
Industrial Design
MA, Special Studies; BID, Industrial Design
President, J.L. Mueller, Inc.
Workplace Accomodation; Equipment Modification

**MURPHY, Eugene F.*
511 East 20th St.
New York, NY 10010
(212) 982-0503
Mechanical Engineering
PhD, Mechanical Eng.
Director, Office of Technology Transfer; Consultant and Writer
Equipment Modification; Lab Adaptation; Prosthetic, Orthotic, Sensory Aids
Neurological (Spinal-polio) Age 11

**NAVY, Caryn Linda*
Raised Dot Computing, Inc.
408 S. Baldwin St.
Madison, WI 53703
(608) 257-9595 Work (608) 241-2498 Home
Mathematics and Computer Science
PhD, Mathematics
Applications Engineer/Software Designer
Assistive Technology for Blind/VI; Computer Access for Blind/VI; Special Help for Math Students
Blind/Visually Impaired Age 10

**NEMETH, Abraham*
20764 Knob Woods Dr. #201
Southfield, MI 48076
(313) 356-5353
Mathematics and Computer Science
PhD, Mathematics; MA, Psychology; BA, Psychology
Professor of Math (retired), University of Detroit
Assistive Technology for Blind/VI; Computer Access for Blind/VI; Coping Strategies; Transportation/travel
Blind/Visually Impaired Birth

**PACHCIARZ, Judith Ann*
12135 Emelita Street
North Hollywood, CA 91607
(818) 769-0908 (TDD only) (213) 744-3697 (Voice)
Medicine and Immunology
MD, Medicine; PhD, Microbiology, Immunology; MS, Microbiology
Pathologist/Laboratory Director
Assistive Technology for Deaf/HI; Coping Strategies
Deaf/Hearing Impaired Age 2

**PETERSEN, Roger D.*
2211 Latham St., Apt 120
Mountain View, CA 94040
(415) 969-1688
Psychology and Linguistics
BA, Psychology
Applications Engineer, TeleSensory Corporation
Computer Access for Blind/VI
Blind/Visually Impaired Birth

**PFROMMER, Margaret C.*
Technical Aid and Assistance for the Disabled Center (TAAD)
1950 West Roosevelt Rd.
Chicago, IL 60608
(312) 421-3373 (312) 908-0878
Rehabilitation and Engineering
Managing Director, TAAD
Computer Access (personal computers); Assistive Technology
Neurological (Post-polio) Age 18

**SCADDEN, Lawrence A.*
Electronic Industries Foundation
919 18th Street, NW, Suite 900
Washington, DC 20006
(202) 955-5823
Psychology, Government and Medical Sciences
PhD, Med. Sciences; MA, Psychology; BA, Government
Director, Rehabilitation Engineering Center
Assistive Technology for Blind/VI; Braille; Computer Access for Blind/VI
Blind/Visually Impaired Age 4

**SCALES, William*
University of Maryland
Disabled Student Services
Room 0216, Shoemaker Hall
College Park, MD 20742
(301) 314-7682
Post-secondary counseling
EdD, Counseling and Guidance; MS, Counseling; BS, Education

Associate Director, Counseling Center Director,
Disabled Student Services; Post-secondary Education
Orthopedic Paraplegic Age 18

**SCHATZLEIN, John E.*
10933 Johnson Ave. South
Bloomington, MN 55437
(612) 881-2129 H (612) 863-4184 W
Public Health and Psychology
MPH, Public Health; BA, Psychology
Manager, Spinal Cord Injury, Sister Kenny Rehabilitation Hospital
Attitudinal Barriers; Limited Mobility Access; Funding Sources
Neurological (Spinal Cord) Age 14

SCHREIER, Elliot M.
National Technology Center
American Foundation for the Blind
15 West 16th Street
New York, NY 10011
(212) 620-2080
Engineering and Computer Science
MS, Computer Science; BS, Electrical Eng.
Director, National Technology Center
Assistive Technology for Blind/VI; Computer Access for Blind/VI

**SHWORLES, Thomas R.*
803 Monticello Place
Evanston, IL 60201
(708) 866-8195
Counseling Psychology/Sociology
Post-grad study, Medical Sociology; MA, Counseling Psych.; BA, Sociology
Consumer Advocate Chairman, Committee on Personal Computers
and the Handicapped
Assistive Technology; Computer Access; Coping Strategies; Transportation/
Travel (esp. Air)
Neurological Quadriplegia Birth

**SKAWINSKI, William J.*
393 Madeline Ave.
Garfield, NJ 07026
(201) 478-2684
Chemistry and Accessibility
PhD, Chemistry
Research Assistant, Mechanical Engineering,
New Jersey Institute of Technology
Computer Access; Lab Adaptation
Blind/Visually Impaired Age 12

**STEARNER, S. Phyllis*
1141 Iroquois Ave., Apt. 114
Naperville, IL 60563
(708) 357-7908
Biology and Zoology
PhD, Biology
Biologist (Retired)
Advocacy; Computer Access; Limited Mobility Access; Laboratory Adaptation
Neurological (Cerebral) Birth
Neurological (Spinal Cord) Age 45

**STONE, Howard E. "Rocky"*
Self Help for Hard of Hearing People Inc. (SHHH)
7800 Wisconsin Ave.
Bethesda, MD 20814
(301) 657-2248 (Voice) (301) 657-2249 (TDD)
BA, International Relations
Executive Director, SHHH; Member, Nat'l Advisory Council & NIDCD subcommittee
Assistive Technology for Deaf/HI; Communication Access; General Services for Hard of Hearing People
Deaf/Hearing Impaired Age 19

**SWANSON, Anne Barrett*
College of St. Catherine
St. Paul, MN 55105
(612) 690-6501
Chemistry and Biochemistry
PhD, Biochemistry; BS, Chemistry
Associate Academic Dean, College of St. Catherine
Education; Limited Mobility Access; Laboratory Adaptation; Laboratory Safety
Orthopedic Birth

**TAYLOR, Paul L.*
Federal Communications Commission
Domestic Facilities
2025 M Street, NW, Room 6008
(202) 634-1860 (Voice) (202) 634-1855 (TDD)
Computer Science and Engineering
MS, Operations Research; BS, Chemical Engineering
Associate Professor
Communication Access for Deaf/HI
Deaf/Hearing Impaired Birth

**TOMBAUGH, Dorothy*
2341 Circle "X" Place
Tucson, AZ 85713
Chemistry
(602) 578-2410
DSc, Science; DHl, Humane Letter; MAT, Biology and Education; BS, Chemistry
Pre-college Science Education; Science Education for Students with Orthopedic or Visual Impairments
Organic Age 53

**VAN ETTEN, Robert P.*
30 Northampton St.
Rochester, NY 14606
(716) 458-5455
Engineering
MSE, Electrical Eng.; BSE, Industrial Eng.
Rehabilitation Engineer and Adaptive Living Consultant
Computer Access; Limited Mobility Access; Seating Modifications
Orthopedic Birth

VANDERHEIDEN, Gregg
TRACE Research and Development Center
University of Wisconsin at Madison
1500 Highland Ave.
Madison, WI 53705
(608) 262-6966
Engineering and Communication Disorders
PhD, Technology, Communication Rehab. and Child Development; MS, Biomedical Eng.; BS, Electrical Eng.
Director, TRACE Research and Development Center
Associate Professor, Dept. of Industrial Engineering
Communication; Computer Access; Mass Market Products for Access

**VAUGHN, Gwenyth*
2050-A Montreat Parkway
Birmingham, AL 35216
(205) 979-0859
Audiology, Speech Pathology
PhD, Communicology; MA, English; BA, Music
Prof. Emeritus, Schools of Medicine and Dentistry,
University of Alabama at Birmingham
Assistive Listening Devices; Remote Machine Assisted Treatment and Education (REMATE), Tel-Communicology
Neurological (Spinal Cord) Age 34

**WAINAPEL, Stanley F.*
Department of Rehabilitation Medicine
St. Luke's Roosevelt Hospital Center
428 W. 59th St.
New York, NY 10019
(212) 523-6598
Medicine and Public Health
MD, Medicine; MPH, Public Health
Associate Director, Rehabilitation Medicine
Attitudinal Barriers; Assistive Technology
Blind/Visually Impaired Age 8

**WARSHAWSKY, Mike*
22 Railroad Street, Apt. 212
Andover, MA 01810-3545
(508) 474-9322
BS, Chemical Physics; MS, Engineering Design
Software Quality Assurance Engineer, Raytheon Corporation
Limited Mobility Access; Post-secondary Education
Neurological (Spinal Cord) Age 18

WEISMAN, Gerald
Rehabilitation Technology Services
Vermont Rehabilitation Engineering Center
1 South Prospect Street
Burlington, VT 05401
(802) 656-2953
BE, Mechanical Engineering; MS, Mechanical Engineering
Rehabilitation Engineering, Ergonomics

**WOBSCHALL, Rachel*
STAR Program
300 Centennial Building
658 Cedar Street
St. Paul, MN 55155
(612) 297-1554
Political Science
MA, International Management; BA, Political Science; Graduate Work - Specialized Technology
Public Policy, Issues on Technology; Advocacy, Consumer Involvement; General Assistive Technology; Funding Policy
Cerebral Palsy Birth

**WOHLERS, H. David*
Science Hall
Northeast Missouri State University
Kirksville, MO 63501
(816) 785-4625
Chemistry
PhD, Chemistry; BS, Chemistry; BA, Mathematics
Associate Professor
Assistive Technology for Blind/VI; Computer Access for Blind/VI; Equip/Instrument Modification; Lab Adaptation/Access
Blind/Visually Impaired Age 3

**YOUNG, David A.*
Dept. of Preventive Medicine and Biometrics
U.C. Medical Center, B119
4200 E. 9th Ave.
Denver, CO 80262
(303) 270-5250
Biostatistics and Physiology
PhD, (Cand.); MS, Physiology; BA, Chemistry; AS, General Sciences
Doctoral Candidate/Instructor; Research Assistant
Computer Access; Lab Adaptation; Limited Mobility Access; Equipment Modification
Neurological (Spinal Cord) Age 19

*ZOLA, Irving Kenneth
Department of Sociology
Brandeis University
Waltham, MA 02254-9110
(617) 736-2644 (617) 736-2630
Sociology
PhD, Sociology; BA, Social Relations
Chair, Department of Sociology
Attitudinal Barriers; Disability (General); Sociology of Disability
Neuromuscular Age 16
Orthopedic Age 20

List 2: Consultants by Expertise

Assitive Technology for Blind/Visually Impaired

BOHRMAN, Jeffrey S.
BROYDE, Bernice
CRANMER, T.V.
CULLERS, D. Kent
DE WITT, John C.
FOULKE, Emerson
GENENSKY, Samuel M.
GERREY, William A.
GILDEN, Deborah
MITCHELL, James E.
NAVY, Caryn Linda
NEMETH, Abraham
SCADDEN, Lawrence A.
SCHREIER, Elliot M.
SKAWINSKI, William J.
WAINAPEL, Stanley F.
WOHLERS, David H.

Assitive Technology for Deaf/Hearing Impaired

BOOTHROYD, Arthur
DIPIETRO, Loraine J.
PACHCIARZ, Judith Ann
STONE, Howard E. "Rocky"

TAYLOR, Paul L.
VAUGHN, Gwenyth

Assistive Technology for People Who Cannot Speak
BRADY, Mary E.
COOK, Albert
EULENBERG, John B.
VANDERHEIDEN, Gregg

Assistive Technology: General
AXELSON, Peter W.
BRADY, Mary E.
COOK, Albert
JEFFERS, James S.
LEIFER, Larry
WAINAPEL, Stanley F.
WEISMAN, Gerald
WOBSCHALL, Rachel

Attitudinal Barriers
ASCH, Adrienne
BOEN, James
HARTMANN, Rhona
LIFCHEZ, Raymond
SCHATZLEIN, John E.
STONE, Howard E. "Rocky"
ZOLA, Irving Kenneth

Braille
ASCH, Adrienne
CULLERS, D. Kent
GERREY, William A.
NAVY, Caryn
SCADDEN, Lawrence A.
SKAWINSKI, William J.

Captioning For Deaf/HI and Descriptive Video For Blind
GOLDBERG, Larry

Computer Access, Blind/Visually Impaired

ASCH, Adrienne
AVAKIAN, Emik
BARBER, Teddy L.
CRANMER, T.V.
CULLERS, D. Kent
NAVY, Caryn
NEMETH, Abraham
PETERSEN, Roger D.

Computer Access, General

ANDERSON, Pattie
BIAGLOW, James A.
EULENBERG, John B.
HILLAM, Bruce P.
PFROMMER, Margaret C.
SHWORLES, Thomas, R.
SKAWINSKI, William J.
VAN ETTEN, Robert P.
VANDERHEIDEN, Gregg
YOUNG, David A.

Employment Issues

GUERTIN, Ralph
JUDY, Barbara
MALZAHN, Don
MENCHEL, Robert S.
MUELLER, James L.

Laboratory Adaptation

BARBER, Teddy L.
BLUMENKOPF, Todd A.
MURPHY, Eugene F.
SKAWINSKI, William J.
STEARNER, S. Phyllis
SWANSON, Anne Barrett
WOHLERS, H. David
YOUNG, David A.

Laboratory Safety
SWANSON, Anne Barrett

Learning Disabilities
ANTONOFF, Stanley J.

Limited Mobility
ANDERSON, Pattie
BIAGLOW, James A.
CHILDRESS, Dudley
DE GRAFF, Alfred H.
HOTCHKISS, Ralf
MILLER, Millage Clinton III
SCHATZLEIN, John E.
STEARNER, S. Phyllis
SWANSON, Anne Barrett
VAN ETTEN, Robert P.
WARSHAWSKY, Mike

Museum Access
DAVIDSON, Betty A.
LIEBER, Ellen Ruth

Policy, Advocacy, and Legal Issues
ANTONOFF, Stanley, J.
DAVIS, Deidre
FRIEDEN, Lex
GALVIN, Jan C.
HEUMANN, Judy
ILIFF, Kenneth W.
KAPLAN, Deborah
LIFCHEZ, Raymond
McCRIMON, Audrey
MITCHELL, James E.
SCHATZLEIN, John E.
WOBSCHALL, Rachel
ZOLA, Irving Kenneth

Post-Secondary Education

BOEN, James
BLUMENKOPF, Todd A.
HARTMAN, Rhona
MALZAHN, Don
SCALES, William
SWANSON, Anne Barrett
WARSHAWSKY, Mike
WOHLERS, H. David

Recreational Equipment

AXELSON, Peter W.
DE GRAFF, Alfred H.

Robotics

LEIFER, Larry

Science Education

DAVIDSON, Betty A.
DE LUCCHI, Linda
KELLER Jr., E.C.
LANG, Harry G.
SWANSON, Anne Barrett
TOMBAUGH, Dorothy

Statistics on Disability

BOEN, James
KIRCHNER, Corinne
MILLER, Millage Clinton, III

Telecommunication Access For Deaf/HH

KAPLAN, Deborah
MARSTERS, James C.
STONE, Howard E. "Rocky"
TAYLOR, Paul L.
VAUGHN, Gwenyth

Transportation and Travel
BLUMENKOPF, Todd A.
HEUMANN, Judith E.
ILIFF, Kenneth W.
NEMETH, Abraham
SHWORLES, Thomas R.
ZOLA, Irving Kenneth

Wheelchair Development
AXELSON, Peter W.
AVAKIAN, Emik
HOTCHKISS, Ralf
LEIFER, Larry

Worksite Modification
CHILDRESS, Dudley
DUSEL-BACON, Cynthia
FOULKE, Emerson
GALVIN, Jan
JUDY, Barbara
MALZAHN, Don
MUELLER, Jim
MURPHY, Eugene F.
VAN ETTEN, Robert P.
WEISMAN, Gerald

List 3: Consultants by Academic Field

Administration
GALVIN, Jan C.

Architecture
LIFCHEZ, Raymond

Audiology
BOOTHROYD, Arthur
LEVITT, Harry
VAUGHN, Gwenyth

Biochemistry
DAVIDSON, Betty A.

Biology
KELLER, Jr., E.C.
MITCHELL, James E.
STEARNER, S. Phyllis

Biostatistics
BOEN, James
MILLER, Millage Clinton III

Broadcasting
GOLDBERG, Larry

Chemistry
BARBER, Teddy L.
BLUMENKOPF, Todd
SKAWINSKI, William J.
SWANSON, Anne Barrett
TOMBAUGH, Dorothy
WOHLERS, H. David
YOUNG , David A.

Communication Disorders
BROYDE, Bernice

Computer Science
ANDERSON, Pattie

Dentistry
ANTONOFF, Stanley J.
MARSTERS, James C.

Education
DeGRAFF, Alfred
DIPIETRO, Loraine J.
HARTMAN, Rhona
JEFFERS, James S.

LIEBER, Ellen Ruth
McCRIMON, Audrey
SCALES, William

Engineering
AXELSON, Peter W.
BIAGLOW, James A.
CHILDRESS, Dudley
COOK, Albert
CRANMER, T.V.
GERREY, William A.
HOTCHKISS, Ralf
ILIFF, Kenneth W.
LEIFER, Larry
MALZAHN, Don
MUELLER, James L.
MURPHY, Eugene F.
SCHREIER, Elliot M.
TAYLOR, Paul L.
VAN ETTEN, Robert P.
VANDERHEIDEN, Gregg
WARSHAWSKY, Mike
WEISMAN, Gerald

Geology
DUSEL-BACON, Cynthia

International Relations
STONE, Howard E. "Rocky"

Law
DAVIS, Deidre A.
KAPLAN, Deborah

Linguistics
EULENBERG, John
PETERSEN, Roger D.

Mathematics
GENENSKY, Samuel M.
HILLAM, Bruce P.
NAVY, Caryn
NEMETH, Abraham

Medicine
JUDY, Barbara
PACHCIARZ, Judith Ann
WAINAPEL, Stanley F.

Music
DE WITT, John C.

Political Science
WOBSCHALL, Rachel

Pharmocology
BLUMENKOPF, Todd A.
BOHRMAN, Jeffrey S.

Physics
CULLERS, D. Kent
GUERTIN, Ralph
LANG, Harry G.
MENCHEL, Robert S.

Physiology
AVAKIAN, Emik

Psychology
ASCH, Adrienne
FOULKE, Emerson
FRIEDEN, Lex
GILDEN, Deborah
SCADDEN, Lawrence A.
SHWORLES, Thomas R.

Public Health
HEUMANN, Judith E.
SCHATZLEIN, John E.

Rehabilitation Technology
BRADY, Mary E.

Sociology
KIRCHNER, Corinne
ZOLA, Irving Kenneth

Zoology
DE LUCCHI, Linda

List 4: Consultants by Disability

This index provides general information about the representation of disabled persons in various disciplines and specific information about which scientists are best prepared to offer their expertise on disabling conditions. The disabilities were assigned to the categories below. Some classifications may seem arbitrary to the user, but to expand the number of categories further, while being medically accurate, would reduce the usefulness of the list.

1. AMPUTEE
2. BLIND/VISUALLY IMPAIRED
3. DEAF/HEARING IMPAIRED
4. DEAF/HEARING IMPAIRED & BLIND/VISUALLY IMPAIRED
5. NEUROLOGICAL (Cerebral)
   e.g., Aphasia, Cerebral Palsy, Double Athetosis, Dyslexia, Dystonia Musculorum Deformans, Epilepsy, Learning Disability, Multiple Sclerosis, Hemiparesis, Parkinson's Disease, Stroke (CVA).
6. NEUROLOGICAL (Spinal Cord)
   e.g., Paraparesis, Paraplegia, Quadriparesis, Spina Bifida, Friedreich's Ataxia, Spinal Muscular Atrophy, Guillain-Barre Syndrome.
7. NEUROMUSCULAR (Post-polio)
   e.g., Mobius Syndrome, Muscular Dystrophy, Myasthenia Gravis, Myelopathy, Myositis Ossificans Progressiva.
8. ORGANIC DISORDERS
   e.g., Allergies, Angina, Arteriosclerosis, Burns, Cardiac Disorders, Cystic Fibrosis, Diabetes, Leukemia, Renal Disease, Wounds.

9. ORTHOPEDIC
   e.g., Ankylosis, Arthritis, Club Hands/Feet, Contracted Knees, Osteomyelitis, Rigid Wrists, Scoliosis.
10. SPEECH DISORDERS

Amputee

DUSEL-BACON, Cynthia

Blind/Visually Impaired

ASCH, Adrienne
BARBER, Teddy L.
BOHRMAN, Jeffrey S.
CRANMER, T.V.
CULLERS, D. Kent
DE WITT, John C.
FOULKE, Emerson
GENENSKY, Samuel M.
GERREY, William A.
MITCHELL, James E.
NAVY, Caryn Linda
NEMETH, Abraham
PETERSEN, Roger D.
SCADDEN, Lawrence A.
SCHREIER, Elliot M.
SKAWINSKI, William J.
WAINAPEL, Stanley F.
WOHLERS, H. David

Deaf/Hearing Impaired

DIPIETRO, Loraine
GUERTIN, Ralph
LANG, Harry G.
LEIFER, Larry
MARSTERS, James C.
MENCHEL, Robert S.
PACHCIARZ, Judith Ann
STONE, Howard E. "Rocky"
TAYLOR, Paul L.

Deaf/Hearing Impaired & Blind/Visually Impaired

BOHRMAN, Jeff
McCRIMON, Audrey

Neurological (Cerebral)

ANTONOFF, Stanley J.
AVAKIAN, Emik
JUDY, Barbara
STEARNER, S. Phyllis
WOBSCHALL, Rachel

Neurological (Spinal)

AXELSON, Peter W.
BLUMENKOPF, Todd A.
BOEN, James
DAVIS, Deidre A.
DE GRAFF, Alfred H.
FRIEDEN, Lex
HILLAM, Bruce P.
HOTCHKISS, Ralf
JEFFERS, James S.
KAPLAN, Deborah
MILLER, Millage Clinton III
SCHATZLEIN, John E.
WARSHAWSKY, Mike
YOUNG, David A.

Neuromuscular (Post-Polio)

ANDERSON, Pattie
BIAGLOW, James A.
HEUMANN, Judith E.
ILIFF, Kenneth W.
KELLER Jr., E.C.
MALZAHN, Don
MURPHY, Eugene F.
PFROMMER, Margaret C.
VAUGHN, Gwenyth
ZOLA, Irving Kenneth

Organic Disorder
TOMBAUGH, Dorothy

Orthopedic
DAVIDSON, Betty A.
LIEBER, Ellen Ruth
SCALES, William
SWANSON, Anne Barrett
VAN ETTEN, Robert P.

Speech-Impaired
BRADY, Mary E.

About AAAS

The American Association for the Advancement of Science (AAAS) was founded in 1848 and has become the world's largest federation of scientific and engineering societies, with over 130,000 members and nearly 300 affiliate societies and academies of science. AAAS publishes *Science*, a weekly professional journal, *Science Books & Films*, a source of critical reviews of educational materials for schools and libraries, and numerous other publications.

AAAS programs and activities aim to broaden the human resource pool of scientists and engineers, shape science and technology policy, increase public understanding of science, expand scientific cooperation in global issues, defend scientific freedom, and raise professional standards.

The AAAS Directorate for Education and Human Resources Programs seeks to improve formal and informal education in mathematics, science and technology; to foster equal access to careers in these fields for women, minorities, and people with disabilities; and to enhance the public's understanding of all areas of science.

The Directorate's Project on Science, Technology and Disability strives to improve access to science and engineering education and careers for people with disabilities. Among its programs are the Project on Access to Engineering, the *Resource Directory of Scientists and Engineers with Disabilities*, and support for out-of-school activities for young people with disabilities.